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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,867	01/25/2002	Chien-Hsing Fang	FANG3008/EM	8546

23364 7590 12/05/2003

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EXAMINER

PHAN, THO GIA

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 12/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/054,867

Applicant(s)

FANG, CHIEN-HSING

Examiner

Tho G. Phan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 11-14 is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,9,10 and 15 is/are rejected.
- 7) ☒ Claim(s) 7 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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DETAILED ACTION

Response to Amendment

1. Amendments "A" received on 07/23/03 have been entered as paper number 4 in this application.

Claim Objections

I. Claim 9 is objected to because of the following informalities:

In claim 9, line 6, "cutout part" (twice) should be changed to --slot--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

II. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

III. Claims 1-2, 4-5, 9 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen (6,407,715).

Chen in figures 2-4 discloses a dual band antenna comprising a conducting surface 22 for radiating and receiving electromagnetic signals and having a first cutout part 37 and a second cutout part 39, the first cutout part having a length for producing electromagnetic resonance at a first frequency range, and the second cutout part having a length for producing electromagnetic resonance at a second frequency range, a feed point 26 connected with the conducting surface

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around the first cutout part for feeding signals of the first frequency range to the first cutout part and-for-feeding-signals.of.the.second.frequency.range.to.the.second.cutout.part (see column, lines 15-41) and a feed line connected with the conducting surface at the feed point for feeding signals to the dual band antenna, a horizontal portion of the first cutout part and a horizontal portion of the second cutout part elongate substantially in the same direction on the conducting surface (see figure 3); and a longitudinal axis of the first cutout part being substantially aligned (portions of the L-shaped slots 37,39 having its own axis being arranged so as to be parallel/align to each other, see figures 3 and 5) with a longitudinal axis of the second cutout part; and as broadly recited in the claims, the two opposing edges of at least one of the first slot and the second slot are not parallel (arbitrary portions of opposing edges of the L-shaped slots 37,39 being perpendicular [not parallel] to each other, see figure 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) a patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

IV. Claims 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen in view of Cassel (5,600,337).

Chen has been discussed above but fails to show the first cutout part is on a deflected portion relative to the second cutout part and a grounding location formed on the conducting surface around the first cutout part whereby the coaxial cable is grounded. However, Cassel in figures 3-4 and 8 discloses the first cutout part 10 is on a deflected portion relative to the second cutout part 12 and a grounding location (at the edge of plate 14) formed on the conducting

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surface around the first cutout part whereby the coaxial cable is grounded. It would have been obvious to one of an ordinary skill in the art at the time the invention was made to employ the first cutout part is on a deflected portion relative to the second cutout part and a grounding location formed on the conducting surface around the first cutout part whereby the coaxial cable is grounded as taught by Cassel for the purpose of improving the grounding of the antenna, and therefore improving the antenna gain.

Allowable Subject Matter

V. Claims 11-14 are allowed.

VI. Claims 7-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

VII. Applicant's arguments filed on 07/23/03 have been fully considered but they are not deemed to be persuasive.

Applicant argues that Chen and Cassel fail to disclose the longitudinal axes of the cut-out slots are aligned, as is now positively recited in independent claims 1 and 9. Examiner respectfully disagrees with applicant's position, as broadly recited in the claim, Chen discloses portions of the L-shaped slots 37,39 having its longitudinal axis being arranged so as to be paralleled or aligned to each other, see figures 3 and 5); and Cassel discloses the slots 24,26 having a common longitudinal axis as to be aligned to each other.

VIII. Accordingly, THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE

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OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Conclusion

IX. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner THO G. PHAN whose telephone number is (703) 308-3051.

X. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0956.

XI. Papers related to Technology Center 2800 applications only may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 308-7722 or (703) 308-7724.



Patent Examiner

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12/2/03